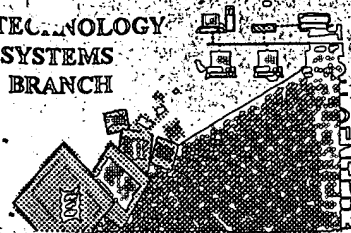


RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



FEB 27 2002

RECEIVED

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/424,091
Source: 1644
Date Processed by STIC: 2/14/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002



1644

RAW SEQUENCE LISTING

DATE: 02/14/2002

PATENT APPLICATION: US/09/424,091

TIME: 15:53:09

Input Set : A:\11 Jan 02 Sequence list output.TXT

Output Set: N:\CRF3\02142002\I424091.raw

3 <110> APPLICANT: Richard Andrew Kay
 W--> 4 <120> TITLE OF INVENTION: Immunological method
 7 <130> FILE REFERENCE: DUNW/P19095US
 9 <140> CURRENT APPLICATION NUMBER: 09/424091
 C--> 10 <141> CURRENT FILING DATE: 2000-02-23
 12 <150> PRIOR APPLICATION NUMBER: GB 9710820.3
 W--> 13 <151> PRIOR FILING DATE: 27 May 1997
 15 <160> NUMBER OF SEQ ID NOS: 47
 17 <170> SOFTWARE: SeqWin99
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 20
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Unknown
 24 <220> FEATURE:
 25 <223> OTHER INFORMATION:
 27 <400> SEQUENCE: 1
 28 catcagaagc agagatctcc
 30 <210> SEQ ID NO: 2
 31 <211> LENGTH: 20
 32 <212> TYPE: DNA
 33 <213> ORGANISM: Unknown
 35 <220> FEATURE:
 36 <223> OTHER INFORMATION:
 38 <400> SEQUENCE: 2
 39 gatgtcaagc tggctcgagaa
 41 <210> SEQ ID NO: 3
 42 <211> LENGTH: 18
 43 <212> TYPE: DNA
 44 <213> ORGANISM: Artificial Sequence
 46 <220> FEATURE:
 47 <223> OTHER INFORMATION: 5' PCR Primer
 49 <400> SEQUENCE: 3
 50 ctgaggtgca actactca
 52 <210> SEQ ID NO: 4
 53 <211> LENGTH: 24
 54 <212> TYPE: DNA
 55 <213> ORGANISM: Artificial Sequence
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: 5' PCR Primer
 60 <400> SEQUENCE: 4
 61 gtgttcccag agggagccat tgcc
 63 <210> SEQ ID NO: 5
 64 <211> LENGTH: 21

Does Not Comply
Corrected Diskette Needed

see item # 11 on Error
Summary sheet.

20

20

18

24

RAW SEQUENCE LISTING

DATE: 02/14/2002

PATENT APPLICATION: US/09/424,091

TIME: 15:53:09

Input Set : A:\11 Jan 02 Sequence list output.TXT

Output Set: N:\CRF3\02142002\I424091.raw

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65 <212> TYPE: DNA
66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: 5' PCR Primer
71 <400> SEQUENCE: 5
72 ggtgaacagt caacaggag a                                21
74 <210> SEQ ID NO: 6
75 <211> LENGTH: 21
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
80 <223> OTHER INFORMATION: 5' PCR Primer
82 <400> SEQUENCE: 6
83 acaagcatta ctgtactcct a                                21
85 <210> SEQ ID NO: 7
86 <211> LENGTH: 18
87 <212> TYPE: DNA
88 <213> ORGANISM: Artificial Sequence
90 <220> FEATURE:
91 <223> OTHER INFORMATION: 5' PCR Primer
93 <400> SEQUENCE: 7
94 ggccctgaac attcagga                                    18
96 <210> SEQ ID NO: 8
97 <211> LENGTH: 20
98 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: 5' PCR Primer
104 <400> SEQUENCE: 8
105 gtcactttct agcctgctga                                20
107 <210> SEQ ID NO: 9
108 <211> LENGTH: 21
109 <212> TYPE: DNA
110 <213> ORGANISM: Artificial Sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: 5' PCR Primer
115 <400> SEQUENCE: 9
116 aggagccatt gtccagataa a                                21
118 <210> SEQ ID NO: 10
119 <211> LENGTH: 22
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: 5' PCR Primer
126 <400> SEQUENCE: 10
127 ggagagaatg tggagcagca tc                                22
129 <210> SEQ ID NO: 11
130 <211> LENGTH: 21
131 <212> TYPE: DNA

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RAW SEQUENCE LISTING

DATE: 02/14/2002

PATENT APPLICATION: US/09/424,091

TIME: 15:53:09

Input Set : A:\11 Jan 02 Sequence list output.TXT

Output Set: N:\CRF3\02142002\I424091.raw

```

132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: 5' PCR Primer
137 <400> SEQUENCE: 11
138 atctcagtgc ttgtgataat a 21
140 <210> SEQ ID NO: 12
141 <211> LENGTH: 24
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
145 <220> FEATURE:
146 <223> OTHER INFORMATION: 5' PCR Primer
148 <400> SEQUENCE: 12
149 acccagctgg tggagcagag ccct 24
151 <210> SEQ ID NO: 13
152 <211> LENGTH: 21
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: 5' PCR Primer
159 <400> SEQUENCE: 13
160 agaaagcaag gaccaagtgt t 21
162 <210> SEQ ID NO: 14
163 <211> LENGTH: 24
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: 5' PCR Primer
170 <400> SEQUENCE: 14
171 cagaaggtaa ctcaagcgca gact 24
173 <210> SEQ ID NO: 15
174 <211> LENGTH: 19
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: 5' PCR Primer
181 <400> SEQUENCE: 15
182 gcttatgaga acactgcgt 19
184 <210> SEQ ID NO: 16
185 <211> LENGTH: 20
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: 5' PCR Primer
192 <400> SEQUENCE: 16
193 gcagcttccc ttccagcaat 20
195 <210> SEQ ID NO: 17
196 <211> LENGTH: 20
197 <212> TYPE: DNA
198 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING

DATE: 02/14/2002

PATENT APPLICATION: US/09/424,091

TIME: 15:53:09

Input Set : A:\11 Jan 02 Sequence list output.TXT

Output Set: N:\CRF3\02142002\I424091.raw

```

200 <220> FEATURE:
201 <223> OTHER INFORMATION: 5' PCR Primer
203 <400> SEQUENCE: 17
204 agaacctgac tgcccaggaa                                20
206 <210> SEQ ID NO: 18
207 <211> LENGTH: 21
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: 5' PCR Primer
214 <400> SEQUENCE: 18
215 catctccatg gactcatatg a                                21
217 <210> SEQ ID NO: 19
218 <211> LENGTH: 19
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: 5' PCR Primer
225 <400> SEQUENCE: 19
226 gactatacta acagcatgt                                    19
228 <210> SEQ ID NO: 20
229 <211> LENGTH: 18
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: 5' PCR Primer
236 <400> SEQUENCE: 20
237 tgtcaggcaa tgacaagg                                    18
239 <210> SEQ ID NO: 21
240 <211> LENGTH: 26
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Antisense 3' PCR primer
247 <400> SEQUENCE: 21
248 aataggtcga gacacttgtc actgga                            26
250 <210> SEQ ID NO: 22
251 <211> LENGTH: 29
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Antisense mid PCR primer
258 <400> SEQUENCE: 22
259 cttgtcactg gatttagatc tctcagctg                        29
261 <210> SEQ ID NO: 23
262 <211> LENGTH: 30
263 <212> TYPE: DNA
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:

```

RAW SEQUENCE LISTING

DATE: 02/14/2002

PATENT APPLICATION: US/09/424,091

TIME: 15:53:09

Input Set : A:\11 Jan 02 Sequence list output.TXT

Output Set: N:\CRF3\02142002\I424091.raw

```

267 <223> OTHER INFORMATION: Antisense 5' PCR primer
269 <400> SEQUENCE: 23
270 gtacacggca gggtcagggt tctggatatt 30
272 <210> SEQ ID NO: 24
273 <211> LENGTH: 30
274 <212> TYPE: DNA
275 <213> ORGANISM: Artificial Sequence
277 <220> FEATURE:
278 <223> OTHER INFORMATION: 5' PCR Primer
280 <400> SEQUENCE: 24
281 aagagagagc aaaaggaaac attcttgaac 30
283 <210> SEQ ID NO: 25
284 <211> LENGTH: 30
285 <212> TYPE: DNA
286 <213> ORGANISM: Artificial Sequence
288 <220> FEATURE:
289 <223> OTHER INFORMATION: 5' PCR Primer
291 <400> SEQUENCE: 25
292 gctgcaaggc cacatacgag caaggcgctcg 30
294 <210> SEQ ID NO: 26
295 <211> LENGTH: 30
296 <212> TYPE: DNA
297 <213> ORGANISM: Artificial Sequence
299 <220> FEATURE:
300 <223> OTHER INFORMATION: 5' PCR Primer
302 <400> SEQUENCE: 26
303 aaaatgaaaag aaaaaggaga tattcctgag 30
305 <210> SEQ ID NO: 27
306 <211> LENGTH: 30
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: 5' PCR Primer
313 <400> SEQUENCE: 27
314 ctgaggccac atatgagagt ggatttgtca 30
316 <210> SEQ ID NO: 28
317 <211> LENGTH: 30
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: 5' PCR Primer
324 <400> SEQUENCE: 28
325 cagagaaaca aaggaaactt ccctgggtcga 30
327 <210> SEQ ID NO: 29
328 <211> LENGTH: 30
329 <212> TYPE: DNA
330 <213> ORGANISM: Artificial Sequence
332 <220> FEATURE:
333 <223> OTHER INFORMATION: 5' PCR Primer

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VERIFICATION SUMMARY

DATE: 02/14/2002

PATENT APPLICATION: US/09/424,091

TIME: 15:53:10

Input Set : A:\11 Jan 02 Sequence list output.TXT

Output Set: N:\CRF3\02142002\I424091.raw

L:4 M:283 W: Missing Blank Line separator, <120> field identifier

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:13 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD

Raw Sequence Listing Error Summary .

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

09/424,091

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

- 11 Use of <220> Sequence(s) 1, 2 missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.